

Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files

DATE: 4 October 1954

FROM :

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SUBJECT:

Contract PSC-¹⁸⁴~~148~~-UNV - Trip Report

1. A visit was made to [redacted] 29 September 1954, to inspect power output figures for the RT-6A transmitter, as modified.

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2. Those present for discussions of the modified RT-6A were:

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3. The purpose of the visit was to examine power output tables of a production run of 24 RT-6A units, as modified, to determine if the degree of increased power output as a result of the modification was sufficient to justify increased costs not to exceed \$4.00 per unit. [redacted] had indicated in a phone conversation that the power increase was approximately 15%. A 15% power increase for modified equipment was not considered satisfactory.

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4. New power output minimums were selected on the basis of complete power output tests made on 24 transmitters. These data are presented in bar-graphs and are attached. The AC Operation bar-graphs are accompanied by a similar bar-graph of the unmodified RT-6A for comparison. Please note that the "new" and "old" graphs are drawn to different scales.

5. The new minimum power output table represents an average of 33% increase in power output over the previously authorized table. The power increase above the minimum power output requirements ranges between 33% and 48% for points checked.

6. Twenty-five RT-6A equipments were modified for power output tests. It should be noted that 23 of these sets were subjected to the tests "as is". The 24th unit was included in the tests after the 2E26 had been replaced because of excessive plate current. The performance of the 25th unit was below that of the 24 units and was excluded from further tests. [redacted] stated that the 25th unit required a new oscillator and amplifier and now performed satisfactorily.

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7. The Navy inspectors were queried as to their tests of the modified equipment and no negative comment was received. [redacted] the Naval Inspector, stated that the rejection rate had been and continues to be about 33%. This was not verified.

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8. The modification physically includes a new tank coil of reduced dimensions. The quality of construction is excellent. The coil is tapped for two band operation. The low band L has a non-adjustable iron slug and includes the high band turns in series. High band operation grounds the low band L. The modification also requires the removal of 5 plates from the tank condenser, the rerouting of the RF choke, two leads, and the removal of a condenser.

9. [redacted] phoned the new power table figures to [redacted] and the undersigned recommended acceptance on the basis that the RT-6A now looks like a good solid 9 watt (nominal) transmitter.

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Attachments:

Power Bar-graphs

New Power Table

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